

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	654927	(inhibit or inhibited or inhibiting or disable or disabled or disabling or prevent or prevented or preventing or prevention or lock or locked or locking or hold or holing or stop or stopped or stopping) near5 (motion or move or moving or feed or fed or feeding or advance or advanced or advancing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/01/10 14:45
2	BRS	L2	96449	1 near5 (substrate or platen or roll or roller or carriage or plate or bed or shelf or cylinder or belt or drum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/01/10 14:45
3	BRS	L3	20361	1 near5 (head or printhead or type)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/01/10 14:46
4	BRS	L4	17247	(2 or 3) near10 (paper or web or material or substrate or tape or strip or envelope or mailpiece or mail or item or piece)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/01/10 14:46
5	BRS	L5	54170	1 near5 (paper or web or material or substrate or tape or strip or envelope or mailpiece or mail or item or piece)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/01/10 14:46
6	BRS	L6	17804	5 near10 (substrate or platen or roll or roller or carriage or plate or bed or shelf or cylinder or belt or drum or head or printhead or type)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/01/10 14:47

	Type	L #	Hits	Search Text	DBs	Time Stamp
7	BRS	L7	250383	(print or printed or printing or impress or press or pressing or pressed or stamp or stamped or stamping) near5 (line or row or column or dot or matrix or character or letter or symbol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/01/10 14:47
8	BRS	L8	137	(4 or 6) near10 7 <i>Scanned Ti, Ab, Kwic all</i>	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/01/10 14:48
9	BRS	L9	654	("4168533" or "4813912" or "5508933" or "5166883" or "5608636" or "5408416" or "4872119" or "5848401" or "5122967" or "5200903" or "0298775" or "298775" or "8305958" or "08305958").pn. or ((@pd<="19710101" not @pd<="19470101") and (101/71 or 101/66 or 101/93.09 or 101/93.24 or 101/93.25 or 101/212 or 400/279 or 400/283 or 400/292 or 400/303 or 400/306 or 400/306.2 or 400/307 or 400/545 or 705/408).ccls.) <i>Scanned Ti all</i>	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/01/10 14:52

	Document ID	Issue Date	Inventor	Current OR	Current XRef	Pages
1	US 3644806 A	19720222	Belson; Ross A. et al.	318/7	318/41; 318/59; 318/72; 361/244; 400/616.3	8
2	US 3917048 A	19751104	Riley; Arthur F.	400/616.1	226/153; 226/187; 226/195; 226/83; 400/616.2; 400/617; 400/618; 400/636	10
3	JP 58042482 A	19830311	NUMATA, SHIGEKI			5
4	US 4971466 A	19901120	Kondo; Hiroatsu	400/577	400/568; 400/575; 400/902	8

78 results

	Document ID	Issue Date	Inventor	Current OR	Current XRef	Pages
1	EP 298775 A2	19890111	GILHAM, DENNIS THOMAS		705/400; 705/FOR.100	6
2	US 5848401 A	19981208	Goldberg; Robert M. et al.	705/408	101/71; 283/71; 346/143; 347/109; 347/2	15
3	US 5608636 A	19970304	Guenther; Stephen	705/408	101/71; 358/1.15	12
4	US 5122967 A	19920616	Gilham; Dennis T.	700/235	221/71; 705/401	7
5	US 4872119 A	19891003	Kajimoto; Hironobu	705/402	177/25.15; 705/407	29
6	US 4168533 A	19790918	Schwartz; Leon J.	705/403	101/91; 346/143; 346/2; 347/109; 347/2; 400/29; 400/88	23

L9 results

US-PAT-NO: 3644806

DOCUMENT-IDENTIFIER: US 3644806 A

TITLE: HIGH-SPEED PRINTER-PAPER FEED ENGINE

DATE-ISSUED: February 22, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Belson; Ross A.	Natick	MA	N/A	N/A
Palombo; Gaston A.	Chelmsford	MA	N/A	N/A

US-CL-CURRENT: 318/7, 318/41 , 318/59 , 318/72 , 361/244 , 400/616.3

ABSTRACT: A high-speed incremental web transport system especially suited for a high-speed printer application includes two motors with velocity feedback driven from a common controller in accordance with a computer originated movement request. Incremental position transducers allow precise repetitive spacing and positional stability of the motor shafts. Differential tension to be created during printing periods is obtained by controlling motor current. Synchronization control for skip-type movements prevents a buildup of positional error.

14 Claims, 5 Drawing figures

Number of Drawing Sheets: 2

----- KWIC -----

Brief Summary Text - BSTX (4): One traditional approach to computer print-outs has been to use a cylindrical rotating drum of type front above the paper, in conjunction with a set of selectively activated hammers behind the paper to strike the paper against a marking ribbon in order to impress the shape of the character on the drum upon the front of the paper. The rotating drums usually have one row for each character with the identical character in each hammer position. The drum is continually rotated at high speed. Selected print hammers are activated to print all like characters in a given line simultaneously. To prevent character smearing and to have different characters aligned, the paper must be stopped and held during the printing operation. Thus, the basic operation of the apparatus is to move the paper to a new line, stop, and retain the paper precisely in place while the type drum is allowed to revolve at least enough so that all desired characters have passed under the print hammers.

US-PAT-NO: 3917048

DOCUMENT-IDENTIFIER: US 3917048 A

TITLE: Synchronized line feed tensioning and gripping apparatus for printer

DATE-ISSUED: November 4, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Riley; Arthur F.	Chicago	IL	N/A	N/A

US-CL-CURRENT: 400/616.1, 226/153 , 226/187 , 226/195 , 226/83 , 400/616.2
, 400/617 , 400/618 , 400/636

ABSTRACT: A line feed tensioning and gripping apparatus, particularly adapted for use in conjunction with conventional tractor or sprocket line feed mechanisms, comprises a pair of specially contoured pinch cams, mounted on and driven by a drive shaft for the line feed mechanism, and a pair of associated pinch rollers which together cooperate to grip and firmly hold a perforated web after each successive line feed advancement thereof, in a precisely synchronized manner. The pinch rollers may also be pre-loaded so as to control the desired tension exerted on the paper during each successive line feed advancement thereof in a manner that ensures continuous and reliable feed pin-paper hole registration. The apparatus, with or without pre-loaded pinch rollers, also acts as a buffer and a momentary positive web drive between the line feed mechanism and the web supply so as to eliminate any tendency of the feed pins (or sprocket teeth) to tear the web at the start of each successive line feed.

13 Claims, 8 Drawing figures

Exemplary Claim Number: 10

Number of Drawing Sheets: 2

----- KWIC -----

Brief Summary Text - BSTX (18): All of the above described mechanisms, with variable degrees of success have reduced the tendency of line fed paper to tear or excessively jerk or jitter as a result of rapid successive line feed advancements thereof. However, such prior mechanisms have in no way incorporated apparatus, preferably synchronized with the line feed mechanism, to prevent the aforementioned problem of the paper shifting relative to the print head (or hammers) during line printing. Such displacement of the paper can readily result in misalignment of the imprinted characters along a given print line.

US-PAT-NO: 4971466

DOCUMENT-IDENTIFIER: US 4971466 A

See image for Certificate of Correction

TITLE: Printing apparatus having a rotatable member rotatable in incremental steps smaller than the pitch of a detent gear and including means for accurately retaining the rotatable member at a predetermined position when the detent mechanism is inoperable

DATE-ISSUED: November 20, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Kondo; Hiroatsu	Zushi	N/A	N/A	JP
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US-CL-CURRENT: 400/577, 400/568 , 400/575 , 400/902

ABSTRACT: There is described a printing apparatus in which line feed is achieved by rotating a platen with a paper advancing motor and the printing is conducted while the platen is stopped by the paper advancing motor. The printer is further provided with a detent mechanism for stopping the platen at the interval of a determined angle, and a solenoid for deactivating the function of the detent mechanism.

15 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

----- KWIC -----

Abstract Text - ABTX (1): There is described a printing apparatus in which line feed is achieved by rotating a platen with a paper advancing motor and the printing is conducted while the platen is stopped by the paper advancing motor. The printer is further provided with a detent mechanism for stopping the platen at the interval of a determined angle, and a solenoid for deactivating the function of the detent mechanism.

PAT-NO: JP358042482A
DOCUMENT-IDENTIFIER: JP 58042482 A
TITLE: PRINTER FOR TICKET PAPER
PUBN-DATE: March 11, 1983
INVENTOR-INFORMATION:
NAME
NUMATA, SHIGEKI
INT-CL (IPC): B41J019/14, B41J003/10

ABSTRACT:

PURPOSE: To effectively print ticket paper in a manner that the longitudinal direction of the paper, e.g., periodical railroad thicket, etc., is positioned in parallel with the printing line by a method in which printing for line is made while feeding a ticket paper under the condition that a printing head is stopped and line feeding is made by moving the printing head.

CONSTITUTION: A wire dot type printing head 2 in which dots are aligned at a right angle to the feeding direction 1 of a ticket and an ink ribbon 3, etc., are mounted on a carrier 4, and the carrier 4 is positioned and stopped by a controller 24 at a place where detection signals are sent forth from a sensor 28, or the first printing line position. Then, printing is made while feeding a ticket paper 27 obtained by sending out a given amount of ticket paper 17 and cutting it in the direction of arrow 1 by rolls 13a and 13b driven by a step motor 15. After the printing of data for the first line, the printing head 2 is moved to the second line printing position by the step motor 8, and the ticket paper 27 is set back to the print starting position by reversely turning the step motor 15. Afterwards, printing for the second line is made. These operations are repeated to perform printing for given lines.

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S3	3411	S1 (5N) (HEAD OR PRINthead OR TYPE)
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S5	10171	S1 (5N) (PAPER OR WEB OR MATERIAL OR SUBSTRATE OR TAPE OR STRIP OR ENVELOPE OR MAILPIECE OR MAIL OR ITEM OR PIECE)
S6	2553	S5 (10N) (SUBSTRATE OR PLATEN OR ROLL OR ROLLER OR CARRIAGE OR PLATE OR BED OR SHELF OR CYLINDER OR BELT OR DRUM OR HEAD OR PRINthead OR TYPE)
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S8	12	(S4 OR S6) (10N) S7
S9	12	RD S8 (unique items)
S10	258	(S4 OR S6) AND S7
S11	257	RD S10 (unique items) [Scanned ti,pd,kwic all]